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Z/017/60/049/011/011/013 E073/E535

Influence of the Ambient Atmosphere on the Surface Conductivity of Silicon

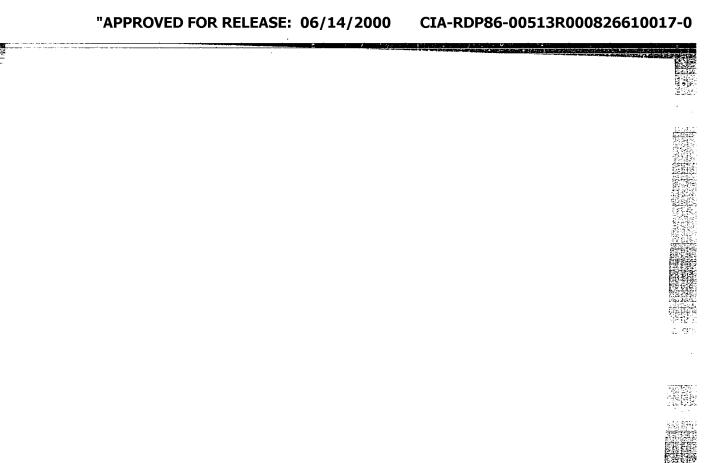
it is stated that the type of conductivity can be determined in certain cases by means of the oxygen atmosphere. The conductivity increases monotonously with increasing oxygen content in the atmosphere in the case of type p junctions and decreases monotonously with increasing oxygen in the atmosphere in the case of type n junctions. Increase in the humidity brings about a monotonous increase in the surface conductivity for type n junctions, whilst for type p junctions it brings about a drop at first until a certain minimum is reached and from then onwards the surface conductivity increases. p-type junctions are more stable with respect to humidity than n-type junctions. n-p-n transistors from p-silicon with a specific resistance of  $10\,\Omega$  cm are practically stable with respect to humidity. There are 6 figures and 4 references: 2 Czech, 1 Soviet and 1 English.

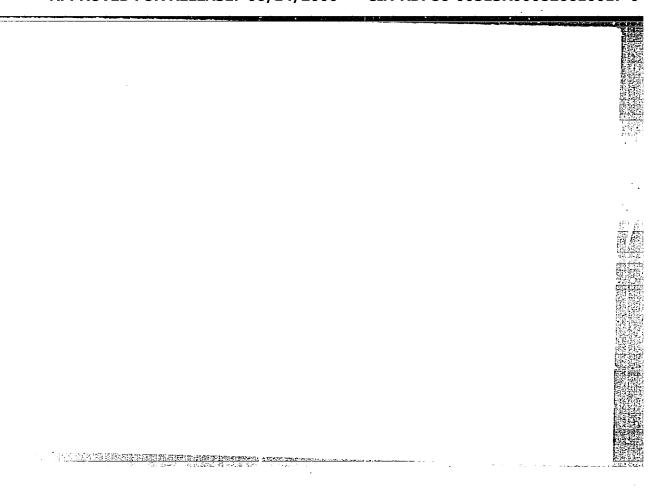
ASSOCIATION: Statni výzkumný ústav silnoproudé elektrotechniky

(Electrical Engineering State Research Institute)

SUBMITTED: July 20, 1960

Card 3/3





HUSA, Vaclav, inz. dr., kandidat technickych ved; KRIZ, Josef; LADNAR, Josef; LUXA, Frantisek

Contribution to the technology of the silicon Mesa power transistor. El tech obzor 52 no.10:538-540 0 '63.

1. Statni vyzkumny ustav silnoproude elektrotechniky.

ACC NR: AP6009346

(A)

attonies Traffiction beauti

SOURCE CODE: CZ/0078/65/000/011/0013/0013

AUTHOR: Husa, Vaclay (Engineering, Doctor of Sciences, Pecky); Kriz, Josef;
Ladner, Josef (Prague); Luxa, Frantisek (Horni Pocernice)

13

ORG: none

1 2 0/0-00

TITLE: Manufacture of p-type diffusion silicon element. Pat. No. PV 1792-63

SOURCE: Vynalezy, no. 11, 1965, 13

TOPIC TAGS: silicon element, collector emitter, gallium compound, hole conduction

ABSTRACT: An Author Certificate has been issued for a method of manufacture of a p-type diffusion silicon element by a two-phase diffusion process. The element base consists of two different conductivity layers where the layer of lower conductivity is adjacent to the region of the collector, while the layer of higher conductivity is close to the region of the emitter. The p-type conductivity region is created by a two-phase diffusion process, with constant temperature of the preheated silicon plate during each phase. The first diffusion phase takes place 1200-1350C for a period of 15 min to 5 hr. Callium oxide heated to 750 -- 200C is used as the doping compound in an amount capable of evaporating in one quarter of the given time. After the completion of the first phase, the plate temperature is lowered to 900 -- 1250C at which temperature the second phase diffusion takes place in a period of 15 min to 2 hr, again with gallium oxide as the doping compound heated to 800 -- 1200C

Card 1/2

ACC NR: A	P6009346	5	-				,
Hydrogen 1	s used s	as the gas carrier in bo	th phases.			[KP]	
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ird 2/2 W				i		}	-

ACC NR: AP6035301 (A) SOURCE CODE: CZ/0078/66/000/009/0019/0020

AUTHOR: Novotny, Vladimir (Engineer; Tabor); Husa, Vaclav (Doctor; Engineer; Doctor of sciences; Pecky); Kriz, Josef (Prague); Bydzovsky, Jan (Engineer; Zasmukh); Ladnar, Josef (Prague); Luxa, Frantisek (Horni Pocernice)

ORG: none

TITLE: Ignition equipment for jet and turbojet engines. CZ Pat. No. PV 1920-55

SOURCE: Vynalezy, no. 9, 1966, 19-20

TOPIC TAGS: power plant component, fuel igniter, engine ignition system, jet engine, jet engine component, turboprop engine, turboprop engine component, spark plug, low voltage spark plug

ABSTRACT: Ignition equipment, especially for use with aircraft jet and turboprop engines, is introduced. It has a low-voltage spark plug and is fed by d-c supply. The secondary winding of the induction coil is connected through the rectifier to the capacitor. The sparking circuit is connected in parallel to the capacitor and connected in series with the low-voltage spark plug. One end of the primary winding of the induction coil is connected to the first pole of the d-c supply. The other end

Card 1/2

ACC NR. AP6035301			•
	let of the common collector for et of the emitter of the output d-c supply and another resis c supply. [KS]		
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ard 2/2	•		

ACC NA 12.00347 PRINTER COLLEGE TO THE PROPERTY OF THE 3 / -43.10**013** INVENTOR: Tase, Vaciar (Deeter of prior as, bostor, Maginetry in Jaloslav (lingineer; Prague); Černý, Lodislav () (jineer; Cadská); litt Ladner, Josef (Prague); Luxa, Francisck (Moral Podernice) Set and CRG: none TITLE: A two phase confoundation element CZ Pas. No. PV 5496-03, 1000 21g MOURCE: Vysalezy, no. 11, 1965, 13 TOPIC TAGS: semiconductor theory, semiconductor research, phase accommodition, semiconductor band structure ABSTRACT: A two-phase semiconductor element built up on semiconduct a bare plate. with a collector with first and second base formed as a layer into the referendactor base plate along its entire surface on one side, with a first and new this latter formed as a second layer into the first layer. The contact of the point base is at the same time the contact of the first emitter, with feed connector, to the collector, the first base, and, if applicable, to the second base and second colder. The first emitter is shaped in the form of a strip and the second emitter in the form of a comb. The relative position of the two emitters is such that the state farming the first emitter is equidistant from all the ends of the comb forming to remend emitter. On the first layer there is formed a contact of the first base in the shape of a strip and also a contact of the second base in the form of a comb. On the comb forming the

ACC NA: AP6009347

second emitter there is formed a contact in the shape of a comb and the parts of the comb engage mutually. The relative position of the contacts is such that the strip forming the contact of the first base is equidistant from the yoke of the comb forming the contact of the second base. The relative position of the strip the comb forming the contact of the second base is such that the yoke of emitter along the part of the strip forming the first emitter.

SUB CODE: 20 / SUBM DATE: 070ct63

Card 2/2

### XRI2, Josef

On the reduction of management and office personnel in heavy engineering enterprises. Podn org 18 no.12:537-539

1. Ministry of Heavy Engineering, Prague.

KRIZ, K., dr. inz.

Extinction of the primary source of potato wart disease in Slovakia. Rost vyroba 10 no. 4:467-468 Ap \*64.

SAF WORKSHIPE			nieniejo kwać sie
	EXCERPTA MEDICA Sec. 7 Vol. 9/11	Nov. 55	
	KB12 /r	}	
	2437. KRIZK. OUNZ Nachod neurol. odd., Nachod. krinach poruch po dětské obrně. Contributi endocrine disturbances following po 1954, 9/24 (564-566)  In 600 patients more than 10% showed the following dis (24 cases), considerable cachexia (7), menstrual trou insipidus (10), precoclous sexual development (6), dys transient central hypothermia (2). These disturbances brai damage caused by poliomyclitic encephalitis. The fested themselves after a certain latency.	sturbances: striking obesity bles (18), transitive diabetes	
	detain latency.	Pešek - Brno (XX, 7, 8)	
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# KRIZ, Kamil, primar MWr

COLUMN CO

Importance of electroretinographic examination in thrombosis of the internal carotid artery. Gesk.ofth. 11 no.4-5:307-311 1955.

1. Z neurologickeho oddeleni nemocnice v Nachode
(ARTERIES, CAROTID, diseases
thrombosis of internal, diag., electroretinography)
(ANGIOGRAPHY
electroretinography in diag. of thrombosis of internal
carotid artery)

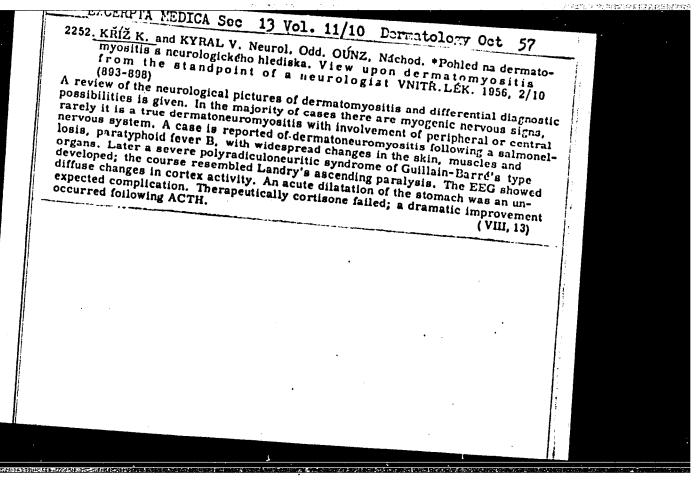
### KRIZ, Kamil, MUDr

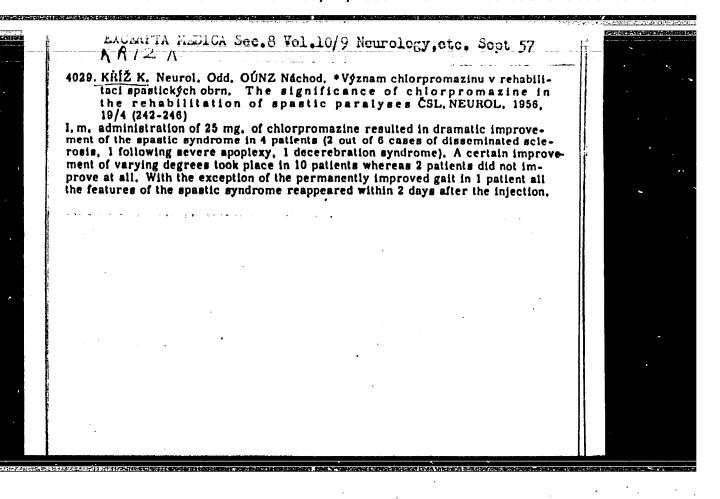
Puerperal thrombosis of intracranial sinuses and cerebral veins. Cesk.gyn. 20 no.2:118-121 Mar 55.

1. Z neur. odd. OUNZ Machod, prednosta: MUDr Kamil Kriz.

(CEMERAL EMBOLISH AND THROMBOSIS,
sinus thrombosis, puerperal)

(PUERPERIUM, complications,
thrombosis of intracranial sinuses & cerebral veins)





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An aggravation and especiali	ng effect was observity in myoclonus epit	ved in post-encephal epsy (1 case).	itic parkinsonism (2 cases) Edgar - Amsterdam	
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# KRIZ, Kamil, MUDr.

Progressive ischemic necrosis of the anterior pituitary after childbirth (Sheehan's syndrome) in a woman with congenital hypofibrinogenemia. Cesk. gyn. 21 no.5:348-350 Sept 56.

# KRIZ, Kamil, MUDr.

Activation of acute disseminated lupus erythematosus by pregnancy. Cesk. gyn. 21 no.5:418-419 Nov 56.

1. Neurologicke oddeleni OUNZ v Nachode. Prednosta primar Dr. K. Kris.

(LUPUS ERYTHEMATOSUS, DISSEMINATED, in pregn. activation (Cz))
(PREGNANCY, compl. disseminated lupus erythematosus (Cz))

KRIZ, Kamil, Dr.; MYKLICKK, Otakar, Dr. Treatment of eclampsia with neuroplegics. Cesk. gyn. 21-35 no.2:119-122 Mar 56. 1. Z porodnidko-gynekologickeho odd. OUNE v Nachode. (Prednosta: prim. Dr. O. Myklicek) Z neurologickeho odd. OUMZ v Machode. (Prednosta: prim. Dr. K. Kris). (ECLAMPSIA, ther. chlorpromasine, promethasine & reserpine. (CHLORPROMAZINE, ther. use eclampsia, with promethasine & reserpine (ANTIHISTAMINICS, ther. use promethasine in eclampsia, with chlorpromasine & reserpine. (PHENOTHIAZINE, deriv. same (RAUWULFIA ALKALOIDS, ther. use

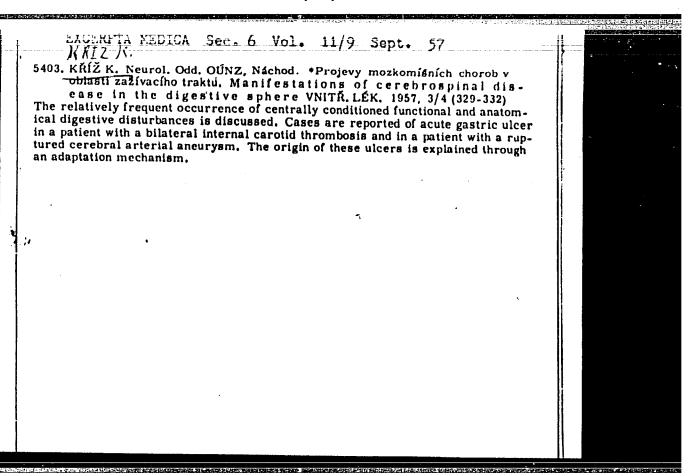
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reserpine, in eclaspeia, with promethasine & reserpine.

# Comments on the symptomatology and diagnosis of epidural hematoma. Roshl. chir. 35 no.11:697-701 Oct 56. 1. Z neurologickeho oddeleni OUNZ Machod, primar MUDr. Kamil Kris. (CKKEBRAL HEMORRHAGE, compl. epidural hematoma, diag. & symptomatol. (Cs))

### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826610017-0



### KRIZ, Kamil

Agenesis of corous callosum with malformation of cerebral hemisphere. Cesk. rentg. 11 no.4:217-222 Dec 57.

1. Neurologicke oddeleni OUNE v Nachode, primar Kamil Kriz. (BRAIN, abnorm.

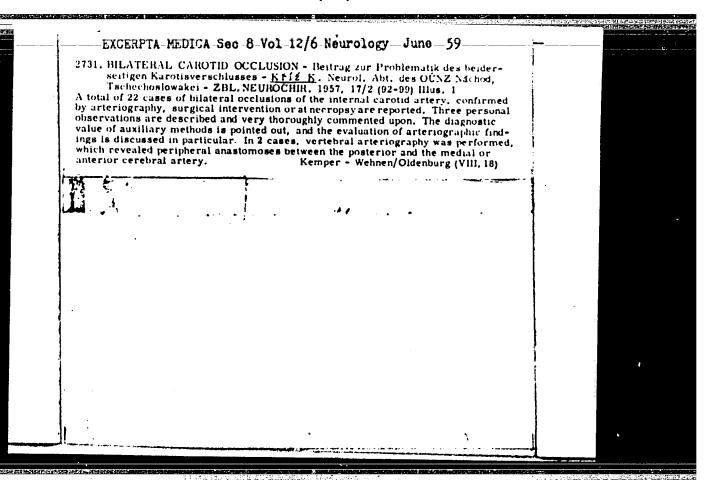
agenesis of corpus callosum with abnorm. right lateral ventricle, x-ray diag. (Cs))

(CEREBRAL VENTRICIES, abnorm.

right lateral ventricle with agenesis of corpus callosum, x-ray diag. (Cz))

### "APPROVED FOR RELEASE: 06/14/2000

### CIA-RDP86-00513R000826610017-0



Country : CZECHOSLOVAKIA

Catogory: Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi
Abs. Jour.: Ref Zhur-Biol, No 23, 1958, No 105800

Author Institut.

: Kriz, K.; Derner, A.

Title

: Experience in the Treatment of Tetanus in

Horses with Chlorpromazine

Orig Pub. : Veterinarstvi, 1958, 8, No 5, 171-174

Abstract : No abstract.

Card:

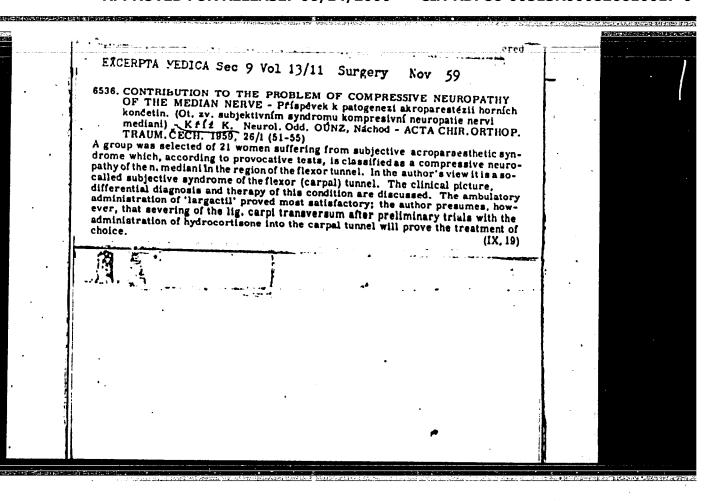
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# KRIZ, Kamil; SNITILOVA, Radovana Aortic arch syndrome. Cas. lek. cesk. 97 no.4:97-100 24 Jan 58, 1. Neurologicke oddeleni CUNE Machod, predmosta Dr. Kamil Kriz, Adres autora: K. K., Nachod, CUNE. (AORTA, dis. aortic arch synd. (CE)) (ARTERITES same)

# KRIZ, K.

On the problem of the appearance of mystagmus in intraspinal expansive lesions. Cesk.otolar. 8 no.6: D 159.

1. Neurologicke oddeleni OUNZ v Nachode, prednosta MUDr. Kamil Kriz.
(SPINAL COMD dis.)
(NYSTAGMUS etiol.)



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KRIZ, Kamil (Nachod, OUNZ)
      Cough and loss of consciousness. Cas. lek. cesk. 98 no.14:426-430
      1. Neurologicka oddeleni OUNE v Nachode, prednosta prim. MUDr. K.
      Kriz.
               (SYNCOPE
                     tussive syncope (Cz))
               (COUGH
                     same)
```

PEKHAN, Y. [Pehan, J.]; Krontzh, K. [Křiž, K.] [Chekhoslovakiya]

Diagnosis, otiology, pathogonesis and therapy of carpal tunnol syndrome. Phur.nevr.i psikh 40 no.8:982-985 '60. (MIHA 13:9) (MEDIAN MERVE. DISEASES)

KRIZ, K.

Treatment of acroparesthesia of the upper extremities by injections of hydrocortisone into the carpal canal. Cas.lek.cesk 100 no.29/30: 947-954 14 Jl <sup>1</sup>61.

1. Neurologicke oddeleni OUNZ Nachod, prednosta prim. MUDr. Kamil Kris.

(PARESTHESIA ther) (ARM dis) (HYDROCORTISONE ther)

KRIZ, K.

Epilepsy caused by reading. Cas.lek.cesk 100 no.42:1323-1329 20 0 161.

1. Neurologicke oddeleni OUNZ v Machode, prednosta prim. dr. K. Kriz.

(EPILEPSY etiol) (READING)

### KRIZ, Kamil

Phlebographic picture of a pericranial sinus. Cesk. rentgenol. 16 no.4:291-294 Ag '62.

1. Neurologicke oddeleni OUNZ v Nachode, prednosta dr. K. Kriz.

(CEREBRAL ANGIOGRAPHY) (SCALP neoplasms)

(HEMANGIOMA radiography) (CRANIAL SINUSES radiography)

### CZECHOSLOVAKIA

K. KRIZ, Head, Neurology Division, Ckres National Health Institute (OUNZ De Okresni Ustav Narodniho Zdravi) Neurologicke oddeleni), Nachod.

"Multiple Sclerosis Beginning with Hypertrichosis."

Frague, Ceakoslevenska Neurologic, Vol. 25(58), No. 6, Nov. 1962; pp. 421-424.

Abstract [English summary modified]: In 2 women aged 24 and 32, generalized bypertrichosis preceded by 2 and 6 months respectively, the appearance of disseminated sclerosis. Process ascribed to androgen-estrogen imbalance due to demyelinating process having started in hypothalamic region. Two case reports; 6 Pestern and 3 Czech references.

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### APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610017-

### CZECHOSLOVAKIA

K. KRIZ, Head (prednosta) Neurologic Department (Neurologicke oddeleni)
OUNZ [Okresni ustav narodniho zdravi = Okres Institute of Public
Health)], Nachod.

"Paroxysmal Headache from Strain."

Prague, Casopis Lekaru Ceskych, Vol 102, No 6, 8 Feb 63; op 137-142.

Abstract [English summary modified]: Report on 14 patients; in all, severe headsche was brought about by cough, muscular strain and any other activity increasing the thoracic pressure. Comprehensive discussion of possible cardiovascular mechanisms, role of irritability of intracranial pain sensors. ACTH infusion helps. Four Czech and 11 Western references.

LURRIGL, Teodor, dr.; KRIZ, Lujo, prim. dr.

Spondylodiscitis in the course of ankylosing spondylitis. Reumatizam 12 no.5:173-180 '65.

1. Zavod za reumatske bolesti "Dr. Dora Filipovic", Zagreb.

KRIS, Milan

New filtration method: List/ cukrovar 80 no.11,301-304 N \*64.

1. Zavody Vitezneho unora National Enterprise, Hradec France.

KRIZ, Milan

Work procedures with power saws in forestry. Pracovni lek.12 no.10:523-526 D '60.

1. Vyskumny ustav lesniho hospodarstvi a myslivosti.
(OCCUPATIONS AND PROFESSIONS)

ZELENY, A.; KOZAK, J.; MAINEROVA, J.; KRIZ, M.; NOVOTNY, V.; SUCHY, R.; STOLARIK, R.

Complex research on forestry work with power saws. Conclusions for practical considerations. Acta univ. carol. [Med] Suppl. 15:211-217 61.

1. Fysiologicky ustav lek. fak. University Karlovy se sidlem v Plzni, Odd. chorob z povolani KUNZ v Plzni, Vyzkumny ustav lesniho hospodarstvi ve Zbraslavi, Ustav bezpecnosti praco ROH v Praze a Krajska sprava lesu v Plzni.

(INDUSTRIAL MEDICINE)

ZELENY, A.; KOZAK, J.; KRIZ, M.lan

Calorimetry during the work with power saws. Pracovni lek. 14 no.5: 218-221 Je '62.

1. Fyziologicky ustav lekarske fakulty Karlovy university v Pizni, prednosta doc. dr. A. Zeleny, Vyzkumny ustav lesniho hospodarstvi a myslivosti na Zbraslavi, reditel inz. J. Sobotka. (METABOLISM) (EXERTION)

KRIZ M

CZECHOSLOVAKIA/Fitting Out of Laboratories. - Instruments.

H-

Their Theory, Construction, and Use.

: Ref Zhur - Khimiya, No 3, 1957, 8682 Abs Jour

: Kriz, M. Author

: Experiments with a New Type Viscometer Designed for the Inst

Title Measurement of High Viscosities.

: Sklar a keramik, 1955, 5, No 11, 259-261. Orig Pub

: A viscometer, test method, and formula for the determina-Abstract

tion of the viscosity of glass at 500-6500 are described. The method is based on the measurement of the elongation of a wire prepared from the glass tube tested. The wire, with a 2.5-500 gms weight attached to one end, is suspended in the furnace. The elongation of the wire is measured with a microscope from the displacement of the heat resistant alloy weight suspended from the wire. The tem-

perature of the wire is measured by a thermocouple which

Card 1/2

CZECHOSLOVAKIA/Fitting Out Of Laboratories - Instruments. Their Theory - Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8682

which is in contact with the wire. The measurements are made over a range of

107-10<sup>10</sup> poises.

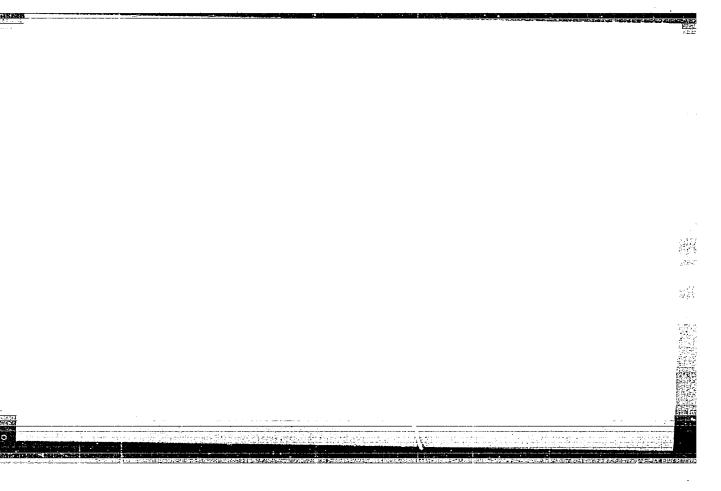
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### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610017-0

KRIZ, M.

Criticism of present analytic methods in the glass industry. p. 63. SKLAR A KERAMIK, Prague, Vol. 6, no. 3, Mar. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.



KRIZ, M.

KRIZ, M. Analysis of container glass. p. 198
-ti- New forms of ornamental objects. p. 199

Vol. 6, no. 8, Aug. 1956 SKIAR A KERAMIK TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

#### KRIZ, M.

"Application of photothermometry to study the shaping of glass."

p. 372 (Silikaty) Vol. 1, no. 4, 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4, April 1958

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610017-0

TROBETAGO ABS. JOUR. : RZKhim., No. 1959, No. 87320 : Krivanck, J.; Kriz, K. HOHTUA IdST. : Determination of Mean Specific Heat PITLE Value of Some Czechoslovak Glasses Used to Manufacture Containers. : Silikaty, 1956, 3, No 2, 110-116 ORIG. PUB. : Description of the design of an instrument, ABSTRACT and of the method, for measuring the mean specific heat values Cm of molten glass at high temperature (up to 1250°) The thus determined on values, depending on temperature, are given for three varieties of glass used in Ozechosapvakia to manufacture containers. These results are compared with the values colculated according to sharp and Ginther. Differences between the actual and the calculated values of  $C_{\rm m}$  are discussed, and also the irregular nature of smeal of  $C_{\rm m}$  as a function of temperature. From authors! summary. CARD: 194

### "APPROVED FOR RELEASE: 06/14/2000 CIA

CIA-RDP86-00513R000826610017-0

KRIZ, M.

Shaping the glass mass. p. 291.

SYLAR A KERAMIK. (Ministerstvo lehkeho prumsylu) Praha, Czechoslovakia, Vol. 9, no. 10, Oct, 1959.

Monthly List of East European Accessions (EGAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

# KRIZ, Mojmir; KADERAVEK, Jiri

New information on packing glass coloring. Silikaty 7 no.3:

1. Vyzkumne pracoviste narodniho podniku Obalove a lisovane sklo, Dubi u Teplic.

POSPISIL, Vsevolod; KRIZ, Mojmir;

Protection of beer from the harmful effect of sunlight by bottle color. Kvasny prum 9 no.10:229-232 0 163.

1. Pokusne a vyvohove strekisko, Vyzkumny ustav pivovarsky a sladarsky, Praha - Branik (for Pospisil).

2. Vyzkumne pracoviste, Obalove a lisovane sklo, n.p., Dubi

CARVINKA, O., KRIZ, O.

Read flows of anamines. Pt.11. Coll Ca Green 30 no.5:1700-1764 My 165.

1. Department of Organic Chemistry of the Institute of Chemical Technology, Prague. Submitted August 18, 1961.

## KRIZ, Pavel, dr.

Use of adhesives in spot welding of aluminum alloys. Zvaranie 12 no.7:197-198 Jl 163.

l. Vyzkumny ustav svarovacich stroju a technologie svarovani, Praha.

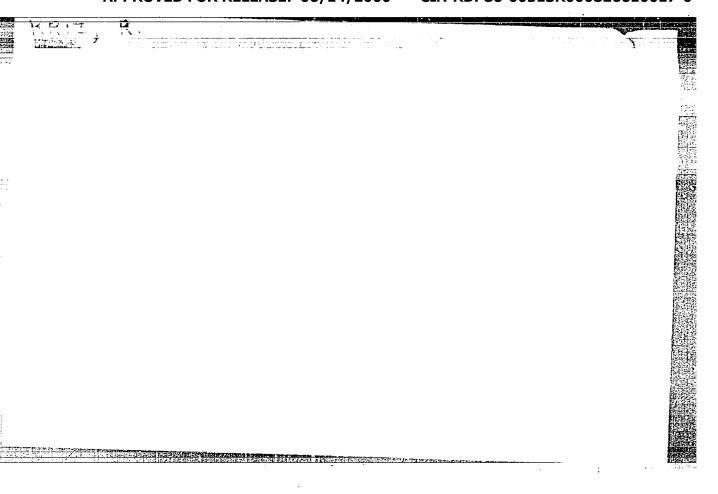
## KRIZ, Pavel, dr.

Outline of the development and present state of vapor shielded welding. Zvaranie 12 no.9:260-264 S:63.

1. Vyzkumny ustav svarovacich stroju a technologie svarovani, Praha.

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610017-0

KRIZ, Pavor, Jr. Explosive webding. Zuarante 13 m. o. characte 1 tot. 1. Zar mly electrotepelnych zarizent, Frag r.



### KRIZ, R.

Therapeutic results with placental extracts. Cesk.ofth. 7 no.2: 105-109 1951. (CIML 20:7)

1. Of the Eye Clinic of the Medical Faculty of Charles University Branch in Pilson (Head-Prof. Rudolf Knobloch, M.D.).

KRIZ, Robert, MUDr

Unusual x-ray pictures in pneumonia and bronchopneumonia in convalescents. Pediat. listy, Praha 9 no.5:269-271 Sept-Oct 54.

1. Detske oddeleni Thomayerovy nemocnice, Praha-Krc (PNEUMONIA, radiography

X-ray pictures, unusual in healing state)

(BRONCHOPNEUMONIA, radiography

X-ray pictures, unusual in healing state)

/I R'/ PIRK, F.; ZEMAN, G.; KRIZ, R.

Two rare cases of hollow ansurysms of the ascending aorta. Cesk. rentg. 11 no.4:256-261 Dec 57.

1. Ustav pro vyskum vysidu lidu v Praze-Krci, reditel doc. J. Masek a oddeleni ustr. rentgenu Thomayerove nemocnice v Praze-Krci.

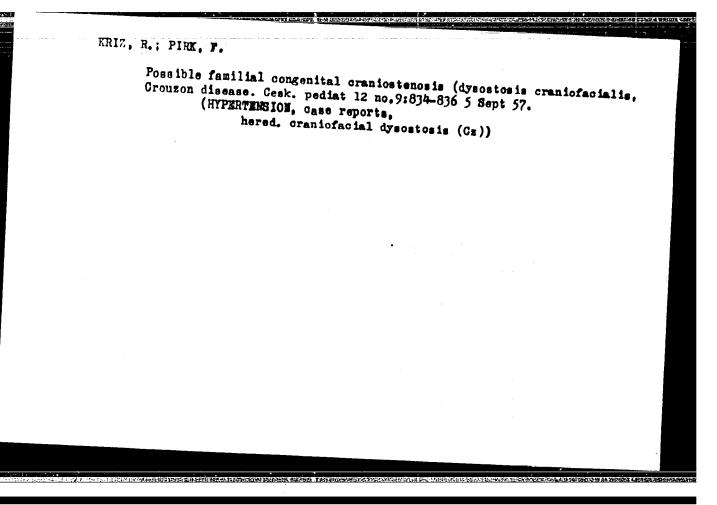
(AORTIG ANEURYSMS, case reports
hollow aneurysma of ascending aorta, rare cases (Cz))

## KRIZ, Robert, MUDr.

Tomography in excretion urography in child. Cesk, pediat. 12 no.8: 731-732 5 Aug 57.

1. Detske interni oddeleni Thomayerovy nemocnice v Praze-Krci, prednosta prim. Dr. Kratkova.

(URINARY TRACT, radiography topography in excretion urography in child (Cx))



### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610017-0

A new approach to the limb-darkening problem of the stars RW
Tauri. Biul matr Cz 16 no.2:118-122 '65.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov. Submitted March 31, 1964.

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610017-0

KRIZ. V.

A contribution to the phenology of certain forest trees. p. 95.

BRIWO Vysoka skola zemedelska a lesnicka. SBORNIK RADA C: SPISY FAKULTY LESNICKE.

No. 3/4 1954.

SOURCE: East European Accessions List (EEAL) Library of Congress. Vol. 5. No. 1, January. 1950.

Country CZECHOSLOVAKIA

Category Forestry. Forest Cultures.

K

: RzhBiol., No 6, 1959, No 24742 Abs Jour

Author Kriz, V.; Chlebek, M.; Pekar, H. Inst

Title Glandular Allanthus from Seed-Growing and

Forest-Culture Point of View.

Orig Pub : Lesn. prace, 1957, 36, No. 3, 116-118

Abstract Experiments on the preservation and sowing of

ailanthus seeds in Czechoslovakia indicated that the highest germination is attained at the vernal sowing of stratified (84 days) seeds. The preservation of the seeds in wintertime in small bags in a cool place produces no positive results. Good results were obtained by the autumnal sowing of the sceds imme-

diately after the harvest. --- M. K. Bush

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> CIA-RDP86-00513R000826610017-0" APPROVED FOR RELEASE: 06/14/2000

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Z/031/60/000/009/002/002 A205/A026

AUTHOR:

Kříž, V./ Engineer

TITLE:

Welding of Low-Carbon Steels in Protective Carbon Dioxide Atmos-

phere

PERIODICAL: Strojirenská výroba, 1960, No. 9, pp. 442 - 444

TEXT: This is a description of methods and tools tested in the CSR for arc welding of low-carbon steels in protective CO<sub>2</sub> atmosphere. Short arcs and high current densities are essential for this welding method. The length of the arc is controlled by the d-c source; however, the control is rather difficult, especially when sources have steep characteristics. Best results were achieved with "S 500 A" selenium rectifiers produced by the "CKD" Plant in Modrany (Photo 1). Automatic tools for submerged-arc welding applicable also for welding in protective CO<sub>2</sub> atmosphere ("SUM" apparatus shown in Photo 2), when they have a modified headpiece for a sufficient CO<sub>2</sub> supply to both, the welding bath and the melting electrode. The modified headpiece contains an adjuster through which electrodes with diameters of 1.2, 1.6, 2 or 2.4 mm are continuously fed to the tip, and a connection for a CO<sub>2</sub> gasline, the flow of which is directed by a

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Z/031/60/000/009/002/002 A205/A026

Welding of Low-Carbon Steels in Protective Carbon Dioxide Atmosphere

nozzle. An insulating ring and lining provide for separation of the electric elements. The "T 350" torch for welding with a tungsten electrode in argon atmosphere (Photo 3) can also easily be adjusted for semiautomatic arc welding in CO2 atmosphere. Electrodes used in the USSR for welding low-carbon steel sheets have the following composition: up to 0.1% C; 0.6 - 0.85% Si; 1.4 - 1.7% Mn; less than 0.03% Al; up to 0.03% S; up to 0.035% P; up to 0.2% Cr; up to 0.25% Ni; and up to 0.25% Cu. Electrodes used for the welding of thick metal sheets (eventually of steel alloy) have the following composition: up to 0.1% C, 0.75 - 0.95% Si; 1.8 - 2.1% Mn; and with Al, S, P, Cr, Ni and Cu percentages similar to those in the above listed electrode. The "VZKG" Combine in Ostrava started the production of electrodes 1.6 mm in diameter which have the following composition: 0.12% C; 1.26% Mn; 0.91% S1; 0.021% P; 0.012% S; 0.14% Cu; 0.09% NI; and 0.17% Cr. The CO2 used must have a minimum purity of 99.7%. The N content must not exceed 0.1%. CO2 used in the USSR contains approximately 0.05 - 0.1% water, while CO2 used in the CSR can contain as much as 0.4% water. The welding speed depends on the current intensity, the speed of the electrode feed on its diameter. The dependence of the welding current on the electrode-feed ratio is shown in Figure 4. A current of 450 amp is achieved with a 2.4 mm electrode fed

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at a rate of 3 m/min or with a 1.6 mm electrode fed at a minimum rate of 8 m/min. The welding current influences chiefly the width and depth of the weld. The longer the arc, the shallower is the heat penetration. The relation between the welding output (deposit in kg/h) and on the feed ratio of 1.6 and 2.4 mm electrodes is shown in Figure 5. At constant feed, losses by spraying and evaporation are decreasing with increasing welding current, but increasing with increasing arc tension. Successful test welds in protective CO<sub>2</sub> atmosphere with good penetration of 14 mm thick material are shown in ground sections of a butt joint (Photo 6) and a fillet weld (Photo 7). In conclusion, the author lists several advantages and disadvantages of welding in protective CO<sub>2</sub> atmosphere. There are

ASSOCIATION: Výzkumný ústav svařovacích strojů a technologie svárování (Research Institute for Welding Machines and Welding Technology) in Prague

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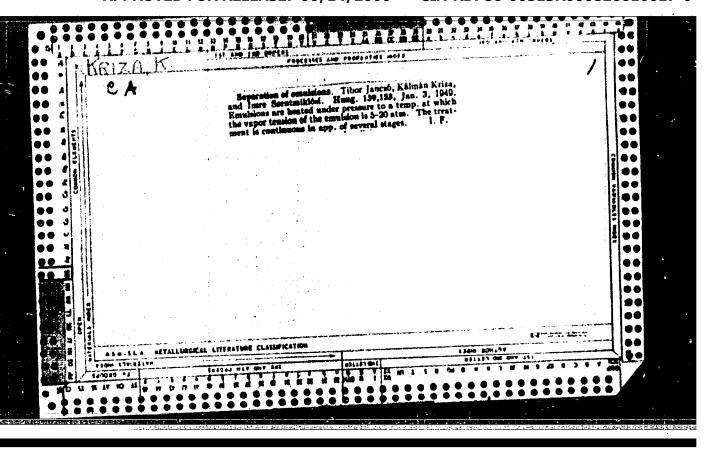
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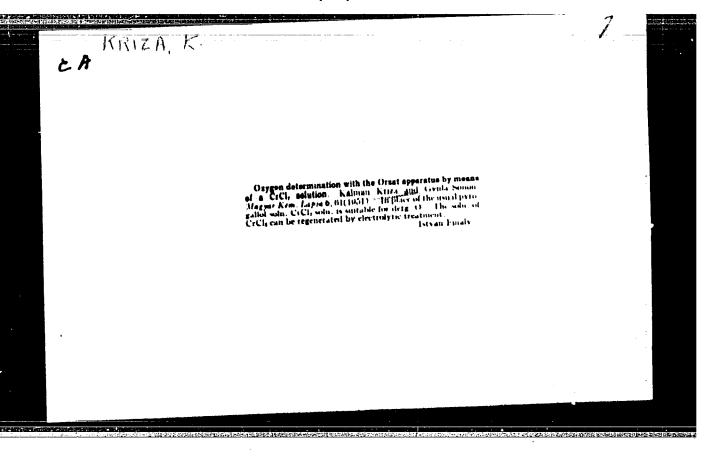
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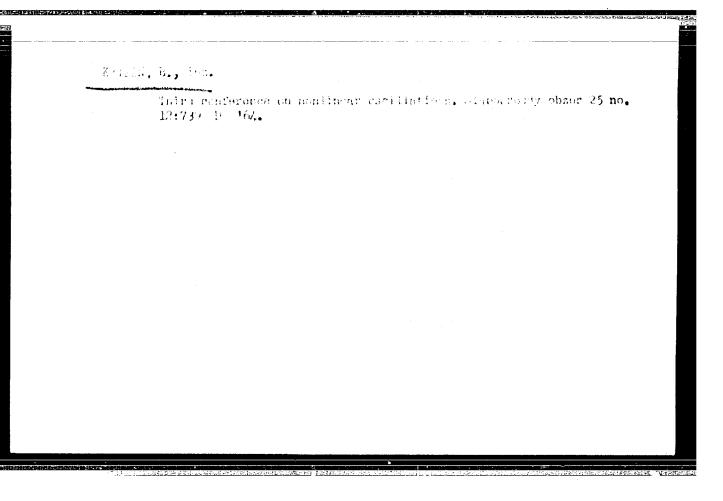
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ACC NR: AP6010962

CZ/0080/65/000/004/0100/0101 SOURCE CODE:

AUTHOR: Krizan, B, (Engineer); Kotva, M. (Engineer); Sedmidubsky, Z. (Engineer); Stanek, M. (Engineer)

ORG: none

TITLE: Characteristics of the AP-S and MEDA 20TS differential analyzers

SOURCE: Automatizace, no. 4, 1965, 100-101

TOPIC TAGS: digital differential analyzer, electronic component, computer

programming

ABSTRACT: The components of these two differential analyzers are listed in a comparative type of table. The parameters of the components are given, and the applications, method of programming, general parameters and present status of installation in Czechoslovakia are given for the analyzers. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 09 / SUBM DATE: none

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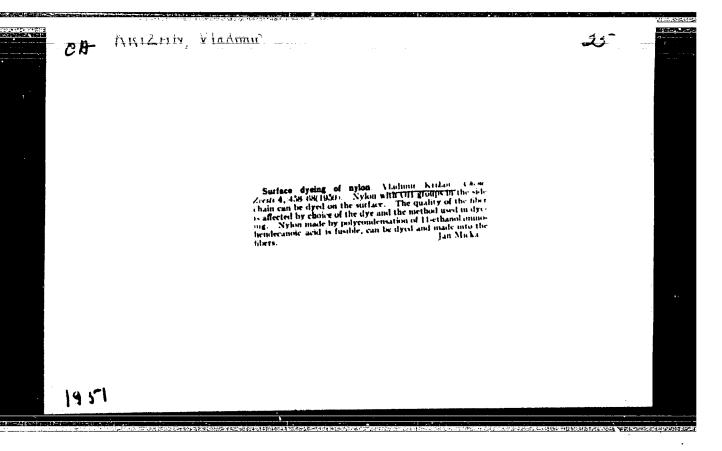
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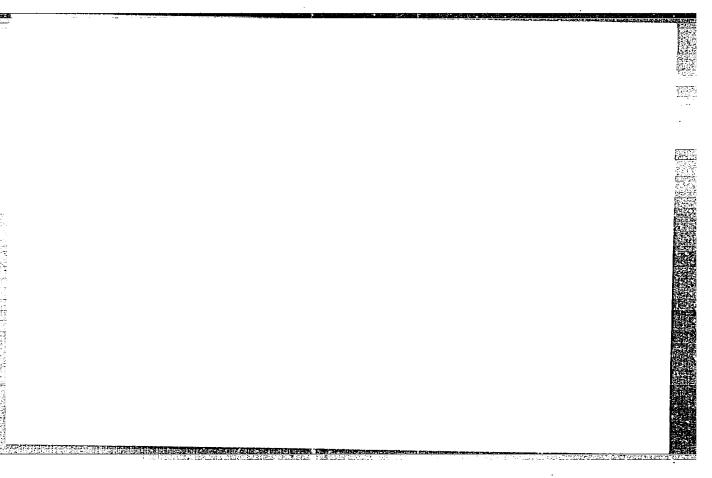
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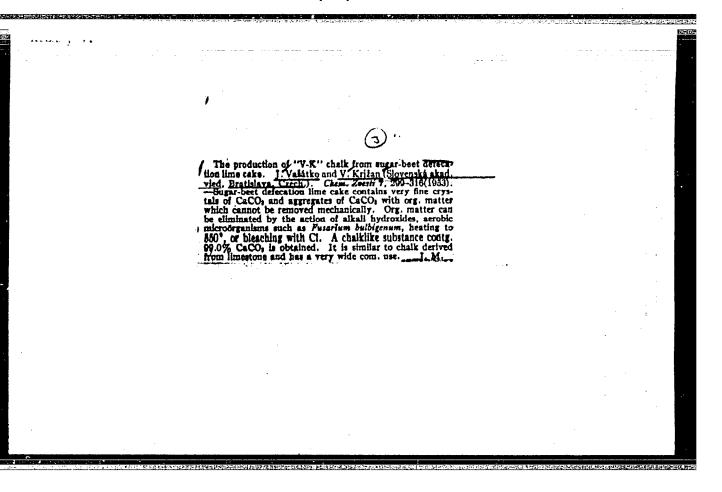


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